

### **ABSTRACT**

Systems and methods for an upgradeable and/or reconfigurable receiver are provided. In general, the present invention is directed to providing systems and methods for designing an electronic communication system having easy and cost effective upgradeable receiver systems and components including, for example, an amplifier and/or a filter. For example, a receiver may include a receiver front end that is configured so that at least one of the original conventional system components may be used along with one or more new system components to provide greater receiver sensitivity and/or selectivity. In various embodiments, portions of an upgradeable receiver system may be made as modular components that allow easy replacement for the upgradeable components which may include a signal amplifier and/or a signal filter. In various embodiments the receiver may be upgraded by replacing a conventional low noise amplifier (LNA) with a high temperature superconductor (HTS) filter and/or a cry-cooled LNA.